

# MATERIAL DATA SHEET

## Rulon® J



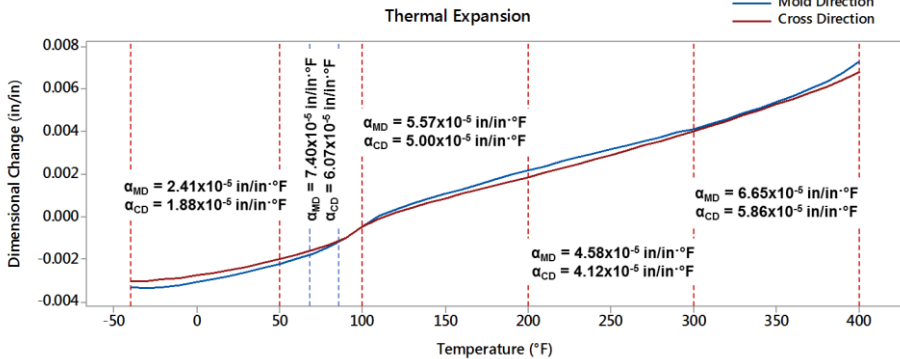
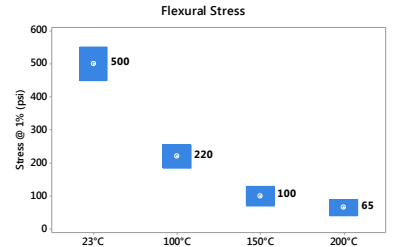
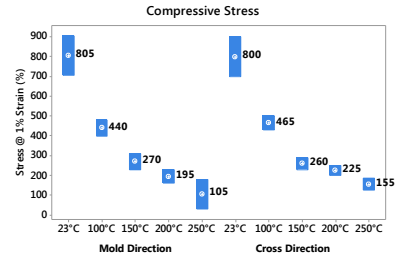
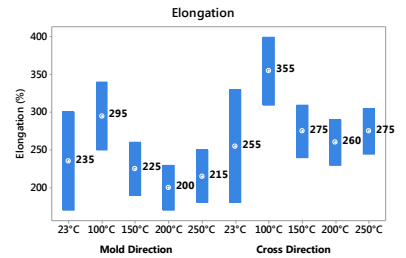
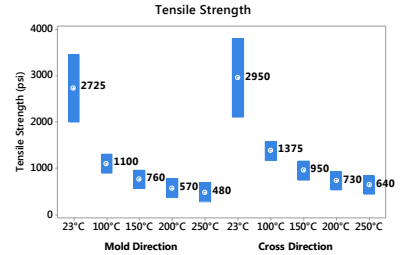
### Features:

- Color: Light brown
- Excellent wear and heat resistance
- Non-abrasive

### Benefits:

- Recommended for moderate to high speed service running against soft or hard metals
- Performs well against lubricated and non-lubricated surfaces
- Working Temperature Range: -268° to +288°C [-450° to +550°F]

	Property	Test Method	Typical Value	Unit	
PHYSICAL	Specific Gravity	ASTM D792	1.95	--	
	Hardness	ASTM D2240	60 – 70	Shore D	
	Water Absorption, 24h	ASTM D570	0	%	
MECHANICAL	Tensile Strength	ASTM D4894	18.8 [2,725]	MPa [psi]	
	Elongation	ASTM D4894	235	%	
	Tensile Modulus	ASTM D4894	0.24 [0.35]	GPa [psi x 10 <sup>5</sup> ]	
	Compressive Stress @ 1% Strain	ASTM D695	5.5 [800]	MPa [psi]	
	Compressive Modulus	ASTM D695	0.56 [0.81]	GPa [psi x 10 <sup>5</sup> ]	
	Flexural Stress @ 1% Strain	ASTM D790	3.4 [500]	MPa [psi]	
	Flexural Modulus	ASTM D790	0.36 [0.52]	GPa [psi x 10 <sup>5</sup> ]	
	Deformation under load, 1500 psi & RT	ASTM D621	2.5	%	
	THERMAL	Thermal Conductivity	ASTM D2214	0.24 [1.7]	W/m · °C [BTU · in/hr · ft <sup>2</sup> · °F]
		Flammability	ASTM D635	Non-flammable	m/s [in/min]
Volume Resistivity		ASTM D257	8.2 x 10 <sup>18</sup>	Ohm · cm	
Surface Resistivity		ASTM D257	6.3 x 10 <sup>18</sup>	Ohm · sq	
ELECTRICAL	Dielectric Constant (10 <sup>6</sup> cycles)	ASTM D150	2.4	-	
	Dielectric Strength (2.032 mm [0.080"] thick)	ASTM D149	7.9 [200]	MV/m [V/mil]	
	Dissipation Factor (10 <sup>6</sup> cycles)	ASTM D149	0.0015	-	
	TRIBO	Coefficient of Friction	-	0.12 – 0.20	-
Maximum Pressure		-	5.2 [750]	MPa [psi]	
Maximum Velocity (no pressure)		-	2 [400]	m/s [ft/min]	
Maximum PV		-	0.26 [7,500]	MPa x m/s [psi x ft/min]	
OPERATING LIMITS MATING SURFACE	Rockwell / Brinnell Scale	-	Rb25 / 64	Minimum	



The table above represents typical values at room temperature for compression molded Rulon®, unless otherwise specified, intended for reference only. They should NOT be used as a basis for design specifications or quality control. Rulon® is a registered trademark. © 2017 Saint-Gobain Performance Plastics, Seals